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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 04.09.2019

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
AGENCY	:	**Sri. Polwar Gopalakrishna,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE		October - 2019
DATE OF TESTING		02.09.2019 to 04.09.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Authorised Signatory

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date : 04.09.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Date of Testing : 04.09.2019

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	182	1.21	1.21	98.79	95-100
20	8236	54.91	56.12	43.88	30-70
10	3256	21.71	77.83	22.17	10-35
4.75	2832	18.88	96.71	3.29	0-5

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Job No : CQCE/BBMP/PK/W No.38/2019-20 Date : 04.09.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Date of Testing : 04.09.2019

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	132	13.20	20.80	79.2	75-100
1.18	220	22.00	42.80	57.2	55-90
600 Micron	168	16.80	59.60	40.4	35-59
300 Micron	250	25.00	84.60	15.4	8-30
150 Micron	101	10.10	94.70	5.3	0-10

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date : 04.09.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Date of Testing : 04.09.2019

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	2590	51.8	55.8	44.2	25-55
4.75	1936	38.7	94.5	5.5	0-10

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 06.09.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.
Name of Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.
Sample Identification : 8mm,10mm, 12mm, 16mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 06.09.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	539	611	13
2	Fe 500	10	0.62	546	625	14.5
1	Fe 500	12	0.89	558	638	15
2	Fe 500	16	1.58	569	649	16

Remarks:

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 02.12.2019

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Reference to BIS co IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test: 30.11.2019 to 02.12.2019

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.7	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.6	
3	5.8	
4	5.3	
5	5.7	
Average of 5 bricks	5.6	

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.2	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.5	
3	10.9	
4	11.5	
5	10.6	
Average of 5 bricks	**10.7**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4640	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1380	1360 to 1440 mm

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date : 02.12.2019

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Polwar Gopalakrishna,**Contractor, Bangalore.

Name of the Work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Date of Testing : 02.12.2019

Size of Blocks : 400mm x 800mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.6	415.2	5.19	2037.50	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	35.8	420.6	5.26	2237.50	
3	Block 3	34.3	419.5	5.24	2143.75	
4	Block 4	35.3	412.6	5.16	2206.25	

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 30.09.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.09.2019	30.09.2019	8.139	266.8	11.86
2	23.09.2019	30.09.2019	8.165	279.2	12.41
3	23.09.2019	30.09.2019	8.158	282.6	12.56

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 21.10.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.09.2019	21.10.2019	8.165	379.6	16.87
2	23.09.2019	21.10.2019	8.158	365.8	16.26
3	23.09.2019	21.10.2019	8.118	382.4	17.00

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TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.09.2019	30.09.2019	8.135	266.8	11.86
2	23.09.2019	30.09.2019	8.159	284.9	12.66
3	23.09.2019	30.09.2019	8.164	276.8	12.30

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TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.09.2019	21.10.2019	8.178	386.3	17.17
2	23.09.2019	21.10.2019	8.166	368.2	16.36
3	23.09.2019	21.10.2019	8.180	376.5	16.73

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 09.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	09.08.2019	8.168	269.5	11.98
2	02.08.2019	09.08.2019	8.175	276.5	12.29
3	02.08.2019	09.08.2019	8.181	281.5	12.51

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 30.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	30.08.2019	8.166	376.5	16.73
2	02.08.2019	30.08.2019	8.179	386.9	17.20
3	02.08.2019	30.08.2019	8.184	365.2	16.23

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 09.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	09.08.2019	8.139	269.5	11.98
2	02.08.2019	09.08.2019	8.165	276.5	12.29
3	02.08.2019	09.08.2019	8.154	281.0	12.49

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

B.K. Dwarkanath

Assistant Executive Engineer
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IAS-ANZ
ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 30.08.2019

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : Sri. Polwar Gopalakrishna, Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	30.08.2019	8.178	376.5	16.73
2	02.08.2019	30.08.2019	8.184	365.3	16.24
3	02.08.2019	30.08.2019	8.169	386.2	17.16

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 09.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	09.08.2019	8.150	285.6	12.69
2	02.08.2019	09.08.2019	8.125	266.9	11.86
3	02.08.2019	09.08.2019	8.136	276.5	12.29

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 30.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	30.08.2019	8.188	365.3	16.24
2	02.08.2019	30.08.2019	8.169	376.9	16.75
3	02.08.2019	30.08.2019	8.152	382.4	17.00

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 13.08.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2019	13.08.2019	8.136	260.3	11.57
2	06.08.2019	13.08.2019	8.115	284.6	12.65
3	06.08.2019	13.08.2019	8.152	279.3	12.41

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Authorised Signatory

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Job No.: CQCE/BBMP/PK/W No.38/2019-20 Date: 03.09.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Contractor : **Sri. Polwar Gopalakrishna,** Contractor, Bangalore.

Name of the work : Construction building at peenya village govt primary school and health centre NH-4 in Ward No 38, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.08.2019	03.09.2019	8.184	370.3	16.46
2	06.08.2019	03.09.2019	8.169	369.5	16.42
3	06.08.2019	03.09.2019	8.175	382.8	17.01

Note:

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